



NFPA FIRE HAZARD SYMBOL
See NFPA 704 for detailed explanation.

MATERIAL SAFETY DATA SHEET

No.: 3250 Rev. No.: 2
Date Revised: 05/13/85

Manville

I. PRODUCT IDENTIFICATION

Trade Name(s) : THERMO-MAT
Generic Name: REFRACTORY CERAMIC FIBER INSULATION - *Refractory* CAS #: NONE ASSIGNED
Chemical Name: ALUMINA SILICA Formula: MIXTURE

Manufacturer: MANVILLE BUILDING MATERIALS CORP.
Address: P.O. BOX 5108 Telephone: (303)978-3120
City: DENVER State: CO Zip: 80217 Emergency:

II. PRODUCT INGREDIENTS

INGREDIENT NAME	CAS NUMBER	%	PEL and TLV (except as noted)
REFRACTORY CERAMIC FIBER	NONE	100	2F/CC*
CRYSTALLINE SILICA (CRISTOBALITE) WILL FORM AFTER SERVICE AT TEMPERATURES >1000°C. THE "AFTER SERVICE" DUSTS WILL TYPICALLY CONTAIN >20% CRISTOBALITE.	14464-46-1	>20	1/2((10MG/M ³)/ (%SiO ₂ +2))

*MANVILLE WORKPLACE EXPOSURE GUIDELINE.

III. PHYSICAL DATA

Appearance and Odor: WHITE NEEDLED BLANKET-NO ODOR.

Boiling Point: NA Evaporation Rate (NA = 1): NA
Vapor Pressure: NA Specific Gravity (water = 1): 2.6
Water Solubility (%): NIL Melting Point: >3000°F
Vapor Density (Air=1): NA % Volatile by Volume: NIL

IV. FIRE AND EXPLOSION DATA

Flash Point (Method): NONFLAMMABLE NFPA Flammable/Combustible Liquid Classification: NA
Flammable Limits: LEL: NA % UEL: NA % Auto-Ignition Temperature: NA
Extinguishing Media: NA
Unusual Fire or Explosion Hazards: NONE
Special Fire-Fighting Procedures: NONE

V. HEALTH HAZARDS A. Summary/Risks

Summary: THIS PRODUCT IS UNDER INVESTIGATION AS A POSSIBLE ANIMAL CARCINOGEN. ANIMAL STUDIES TO DATE ARE INCONCLUSIVE. EXPOSURES TO DUST FROM THIS PRODUCT SHOULD BE MINIMIZED UNTIL FURTHER ANIMAL AND HUMAN STUDIES ARE COMPLETE.
THIS PRODUCT IS SUSPECTED TO BE AN ANIMAL CARCINOGEN.

Medical conditions which may be aggravated: PRE-EXISTING UPPER RESPIRATORY AND LUNG DISEASES SUCH AS, BUT NOT LIMITED TO, BRONCHITIS, EMPHYSEMA AND ASTHMA.
Target Organ(s): LUNG AND SKIN
Acute Health Effects: IRRITATION OF SKIN AND UPPER RESPIRATORY SYSTEM.

Chronic Health Effects: NO HUMAN EXPOSURE STUDIES WITH THIS PRODUCT HAVE BEEN REPORTED. AFTER SERVICE DUSTS CONTAIN CRISTOBALITE. PROLONGED EXPOSURE TO "AFTER SERVICE" DUSTS MAY CAUSE LUNG DISEASE (SILICOSIS).

Primary Entry Route(s): INHALATION AND SKIN CONTACT.

V. HEALTH HAZARDS B. Signs/Symptoms of Overexposure

Inhalation: IRRITATION OR TICKLE IN THROAT AND NOSE.

Skin Contact: TEMPORARY IRRITATION OR RASH.

Skin Absorption: NA

Ingestion: MAY CAUSE TEMPORARY IRRITATION OF GI TRACT.

Eyes: TEMPORARY IRRITATION OR INFLAMMATION.

V. HEALTH HAZARDS C. First Aid/Emergency Procedures

Inhalation: REMOVE TO FRESH AIR. DRINK WATER TO CLEAR THROAT AND BLOW NOSE.

Skin Contact: WASH AFFECTED AREAS GENTLY WITH SOAP AND WARM WATER.

Skin Absorption: NA

Ingestion: NA

Eyes: FLUSH EYES WITH COPIOUS QUANTITIES OF WATER A MINIMUM OF 15 MINUTES. IF IRRITATION PERSISTS CONSULT A PHYSICIAN.

VI. REACTIVITY DATA

MATERIAL IS STABLE.

HAZARDOUS POLYMERIZATION CANNOT OCCUR.

Chemical Incompatibilities: HYDROFLUORIC ACID

Conditions to Avoid: NONE IN DESIGNED USE.

Hazardous Decomposition Products: NONE HAVE BEEN DETERMINED.

VII. SPILL OR LEAK PROCEDURES

Procedures for Spill/Leak: VACUUM CLEAN DUST WITH EQUIPMENT FITTED WITH HEPA FILTER. IF SWEEPING IS NECESSARY USE A DUST SUPPRESSANT.

Waste Management: WASTES GENERATED DURING APPLICATION, DEMOLITION, BREAKAGE OR SPILLAGE ARE NOT HAZARDOUS WASTES AS DEFINED BY RCRA(40 CFR PART 261). COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS. METHOD OF DISPOSAL-LANDFILL. RQ-N/A.

VIII. SPECIAL PROTECTION INFORMATION

Goggles: GOGGLES OR FACE SHIELD ARE RECOMMENDED PARTICULARLY WHEN WORKING OVERHEAD.

Gloves: NOT NORMALLY REQUIRED.

Respirator: 3M9900 OR EQUIVALENT FOR EXPOSURES BETWEEN 2F/CC AND 5F/CC AND/OR UP TO 10 TIMES CRISTOBALITE PEL. SURVIVAIR FULL FACE PIECE 1090-00 OR EQUIVALENT ABOVE THESE CONCENTRATIONS.

Ventilation: USE ADEQUATE EXHAUST VENTILATION WHEN INSTALLING. USE DUST COLLECTION WHEN TEARING OUT.

Other: ABOVE 50F/CC AND/OR 100 TIMES THE CRISTOBALITE PEL USE MSA 01-00-06 FULL FACE PIECE TYPE C SUPPLIED-AIR RESPIRATOR OR EQUIVALENT.

Special Considerations for repair/maintenance of contaminated equipment: USE PROPER RESPIRATORY PROTECTION.

IX. SPECIAL PRECAUTIONS

Storage Segregation Hazard Classes: NA

*** ALWAYS SEGREGATE MATERIALS BY MAJOR HAZARD CLASS ***

Special Handling/Storage: KEEP MATERIAL DRY

Special Workplace Engineering Controls: ADEQUATE VENTILATION TO KEEP DUST LEVEL TO BELOW PEL/TLV.

Other: FOR ADDITIONAL INFORMATION, REFER TO MANVILLE SERVICE CORP BULLETIN HSE-66, AVAILABLE FROM: HEALTH, SAFETY & ENVIRONMENT DEPT., MANVILLE SERVICE CORPORATION, P.O. BOX 5108, DENVER, CO 80217

Prepared/Revised by: KENNETH A. ROBERTS

Title: MGR., ENVIRONMENTAL SERVICES

As of the date of preparation of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state law(s). However, no warranty or representation with respect to such information is intended or given.